

METHOD OF MAKING A SPIN VALVE SENSOR WITH A CONTROLLED FERROMAGNETIC COUPLING FIELD

ABSTRACT OF THE DISCLOSURE

5 A pinned layer structure of a spin valve sensor is formed by sputter deposition of cobalt iron (CoFe) in a nitrogen (N₂) atmosphere. This method permits a wider range of deposition times of a copper spacer layer to achieve a desirable ferromagnetic coupling field (H_F) between the pinned layer structure and a free layer structure in the spin valve sensor.

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